[Building Design Analyzer]

Abstract of Disclosure

A computer software program with the process capability to do component structure stress and deflection analysis for beams, joists, rafters, shear walls, and foundations as well as determine the suitability of a structure to withstand wind and seismic forces. A program that has the process capability to determine composite weights of floors, walls, ceilings, and roofs. A software program process that does structural analysis using many different common building materials providing results that show marginal analysis compared to standard allowable parameters, provides a feature to avoid errors in the material properties selected for a structure, and is further formulated to print and/or save the analysis information in a data base file.

Figures